

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/532,174 : PATENT APPLICATION

In re application of: :
Michael Finkenzeller et al. : **METHOD AND DEVICE FOR
SELECTING NETWORK ACCESS TO
ONE OR MORE DATA NETWORKS BY
MEANS OF A TELECOMMUNICATION
TERMINAL**

Filed: April 21, 2005 : **TERMINAL**

Examiner: Marshall McLeod :

Group Art Unit: 2454 :

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AMENDMENT UNDER 37 C.F.R. § 1.312

Pittsburgh, Pennsylvania 15219
November 19, 2010

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Commissioner:

Please amend this application as follows:

Amendment to the Claims begins on page 2 of this paper.

Remarks/Arguments begin on page 11 of this paper.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-55. (Cancelled)

56. (Previously Presented) A method for selecting network access to at least one data network using a telecommunication terminal device comprising:

the telecommunication terminal device selecting access to a first network;

the telecommunication terminal device connecting to the first network;

the telecommunication terminal device determining a location of the telecommunication terminal device with the aid of the first network;

the telecommunication terminal device recording and saving quality of service information for the first network while connected to the first network;

the telecommunication terminal device saving location data comprised of information relating to the determined location;

the telecommunication terminal device linking the saved location data to the recorded and saved quality of service information for the first network;

the telecommunication terminal device disconnecting from the first network;

the telecommunication terminal device determining that a plurality of networks are available, the available networks comprising the first network and at least one second network;

the telecommunication terminal device analyzing the saved quality of service information and saved location data for the first network to select access to one of the first network and a second network of the at least one second network;

the telecommunication terminal device selecting access to one of the first network and the second network of the at least one second network; and

the telecommunication terminal device connecting to the selected first network or the second network of the at least one second network; and

wherein the telecommunication terminal device determines the location of the telecommunication terminal device and performs the linking of the saved location data while the telecommunication terminal device is connected to the first network; and

wherein the analyzing of the saved quality of service information for the first network to select access to the first network or the second network of the at least one second network considers the location information linked to the recorded and saved quality of service information for the first network.

57. (Previously Presented) The method of claim 56 wherein the telecommunication terminal device is one of a mobile radio terminal, a computer, and a laptop and the analyzing of the saved quality of service information for the first network to select access to the first network or the second network of the at least one second network is based on an analysis method that depends upon at least one user defined parameter.

58. (Cancelled)

59. (Cancelled)

60. (Currently Amended) A method for selecting network access to at least one data network using a telecommunication terminal device comprising:

the telecommunication terminal device selecting access to a first network;

the telecommunication terminal device connecting to the first network;

the telecommunication terminal device recording and saving quality of service information for the first network;

the telecommunication terminal device saving location data comprised of location information relating to a determined location of the telecommunication terminal device while connected to the first network, wherein the telecommunication terminal device determines the determined location of the telecommunication terminal device and links the saved location data while the telecommunication terminal device is connected to the first network;

the telecommunication terminal device disconnecting from the first network;

a plurality of networks being available, the networks comprising the first network and at least one second network;

the telecommunication terminal device analyzing the saved quality of service information for the first network to select access to one of the first network and a second network of the at least one second network, wherein the analyzing of the saved quality of service information for the first network to select access to the first network or the second network of the at least one second network considers the location information linked to the recorded and saved quality of service information for the first network;

the telecommunication terminal device communicating with at least one other telecommunication terminal device to obtain quality of service information for the at least one second network for use in determining which network to select;

the telecommunication terminal device selecting access to one of the first network and the second network of the at least one second network; and

the telecommunication terminal device connecting to the selected second network or the selected first network. ~~network.~~

61. (Currently Amended) The method of claim 60 wherein the telecommunication terminal device is one of a mobile radio terminal, a computer, and a laptop and the at least one other telecommunication terminal device is within a predetermined distance of the telecommunication terminal device.

~~A telecommunication terminal device comprising:~~

~~—— at least one interface for connecting to at least one network;~~

~~—— a monitor module connected to the at least one interface, the monitor module configured to monitor a quality of a network connection between the telecommunication terminal device and a network when the telecommunication terminal device is connected to the network;~~

~~—— a reputation repository module connected to the monitor module, the reputation repository module configured to retain quality of network connection information monitored by the monitor module;~~

~~—— a connection analysis module connected to the reputation repository module, the connection analysis module configured to analyze network connection information retained in the reputation repository module; and~~

~~——a connection management module connected to the connection analysis module, the connection management module configured to use data analyzed in the connection analysis module to determine an accessible network to select for connection to a network; and~~

~~——the telecommunication terminal device configured to determine a location of the telecommunication terminal device when connected to the network and link that location with saved quality of network connection information such that the connection analysis module can access and evaluate the location information when analyzing network connection information;~~

~~——wherein the telecommunication terminal device determines the location and performs linking of the saved location information while the telecommunication terminal device is connected to the network; and~~

~~——wherein the telecommunication terminal analyzes the retained quality of network connection information for the network to select access to the network or another network and considers the location information linked to the retained quality of network connection information for the network to select the accessible network to which to connect.~~

62. (Previously Presented) The method of claim 56 wherein the telecommunication terminal device is configured to communicate the saved quality of service information for the first network to other telecommunication terminal devices.

63. (Previously Presented) The method of claim 56 wherein the analyzing of the saved quality of service information for the first network accounts for at least one interface of the telecommunication terminal device.

64. (Previously Presented) The method of claim 63 wherein the second network of the at least one second network is selected after the analyzing of the saved quality of service information and saved location data.

65. (Previously Presented) The method of claim 56 wherein the telecommunication terminal device is a mobile radio telecommunication terminal.

66. (Previously Presented) The method of claim 56 further comprising the telecommunication terminal device analyzing costs or charges associated with access to each second network for use in determining which of the first network and the second network of the at least one second network to select.

67. (Previously Presented) The method of claim 56 wherein the analyzing of the saved quality of service information for the first network to select access to the first network or the second network of the at least one second network is based on an analysis method that depends upon at least one network access quality parameter and at least one account parameter.

68. (Previously Presented) The method of claim 67 wherein the at least one account parameter is comprised of at least one parameter dependent upon a selected video application.

69. (Previously Presented) The method of claim 56 further comprising storing the quality of service information for the first network on a central computer.

70. (Previously Presented) The method of claim 56 further comprising updating the stored quality of service information for the first network.

71. (Previously Presented) The method of claim 56 wherein the selecting of access to the first network or the second network of the at least one second network is determined based upon telecommunication terminal device location requirements needed for access to the second network of the at least one second network.

72. (Previously Presented) The method of claim 71 further comprising a navigation system of the telecommunication terminal device communicating directions on how to get to a location needed for access to the second network of the at least one second network.

73. (Currently Amended) A telecommunication terminal device comprising:
at least one interface for connecting to at least one network;
a monitor module connected to the at least one interface, the monitor module configured to monitor a quality of a network connection between the telecommunication terminal device and a network when the telecommunication terminal device is connected to the network;
a reputation repository module connected to the monitor module, the reputation repository module configured to retain quality of network connection information monitored by the monitor module;
a connection analysis module connected to the reputation repository module, the connection analysis module configured to analyze network connection information retained in the reputation repository module; and

a connection management module connected to the connection analysis module, the connection management module configured to use data analyzed in the connection analysis module to determine an accessible network to select for connection to a network; and

the telecommunication terminal device configured to determine a location of the telecommunication terminal device ~~is in~~ when connected to the network and link that location with saved quality of network connection information such that the connection analysis module can access and evaluate the location information when analyzing network connection information;

wherein the telecommunication terminal device determines the location and performs linking of the saved location information while the telecommunication terminal device is connected to the network; and

wherein the telecommunication terminal analyzes the retained quality of network connection information for the network to select access to the network or another network and considers the location information linked to the retained quality of network connection information for the network to select the accessible network to which to connect.
~~information.~~

74. (Previously Presented) The telecommunication terminal device of claim 73 wherein the connection management module is configured to process all potential combinations of the interfaces and available network access providers to use to determine an optimum network access to select for connection to that network.

75. (Previously Presented) The telecommunication terminal device of claim 73 further comprising:

a reputation information client module connected to the connection analysis module, the reputation information client module configured to direct communications with other telecommunication terminal devices to obtain network access information that the other telecommunication terminal devices have stored; and

the connection analysis module configured to access the network access information that the other telecommunication terminal devices have stored that were obtained by the reputation information client module.

76. (Previously Presented) The telecommunication terminal device of claim 75 wherein the reputation information client module is connected to the reputation repository module and wherein the telecommunication terminal device and the other telecommunication terminal devices are devices selected from the group consisting of mobile telephones, mobile radio terminals, and laptops.

77. (Previously Presented) The telecommunication terminal device of claim 76 further comprising a localizing module connected to the reputation repository module, the localizing module configured to determine the location of the telecommunication terminal device with the aid of the network, the data of the determined location also being stored in the reputation repository module.

REMARKS

The claims amended herein correct typographical errors in claims 60, 61 and 73 made in the Examiner's Amendment provided with the Notice of Allowance dated November 12, 2010.

First, the Examiner's Amendment identified a claim 61 that was amended. However, claim 61 was actually claim 73, as may be appreciated from the text of the amendment set forth as being the amendment to claim 61 in the Examiner's Amendment. Claim 61 has been amended herein to place it back into its previous form.

Claim 73 has been amended herein consistent with what was agreed upon during the Interview. The amendment of claim 73 made herien is also consistent with the text provided in the Examiner's Amendment, which merely identified the wrong claim number.

Finally, there was a hyphen provided in the text of claim 60 before the term "network" in the Examiner's Amendment that was a typographical error. The amendment to claim 60 made herein corrects that error.

Entrance of the proposed amendment of claims is respectfully requested. To the extent the Examiner has any questions regarding the above or would like to discuss issues related to the present amendment, the Examiner may call the undersigned at 412-392-2121.

Respectfully submitted,

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